POLYMORPHISMS IN THE TNFRSF1A GENE

CGGACATAGC CAGATGTATT ACGGATGACT GCAGTCAGCT CCCCCAGGCT
CCTGCTTCTC TTGCCTCCTG CTTTTTTCCC CAGAGCTGTC TCCTTATCTC 100
CATTCACTTG TCTATGGGTT ACTCCTGGAC CCTGGGGTTA GGAGTTGGAA
TCAGGCTGTT AGCGATAAAA GGGTTCAAGT TGACTCATTT TCCTTATCAG 200
GCTTAGTAGT TGAAGTGACT TGCTGAGCTT CATAATTCTT AGAGAACCTG
CCATGAACCC AGCTCCCTTT CTATGACTCA CCCTGCCACC CTGTGACACA 300
TAGAGTCTGA ATGGCAGGTC TGGGGCTAGA ACCCACGTCA TCTGGACTTG
GAGTCCAGTG ACCCTTTGGG TTAAGCATGT GTGTGTGTGT GTGTGTGCCA 400
TGATGCGGGA GGAAGGTCCC TGCTCTCTGT AGCTGTTTTC TTCATCCTTT
GCTCTACAAG CCCTAACAGC CGATTCTGTC ATCCCTAGTC TGCCCCTCTC 500
CTGTTTCTCC ATCTCCTCTG ACCATGATTT TTTTCTGTCC CTGGAGGGAT
GATGGTCTCA TTCTCACCTC CTCCACGAAA CGTGTTAGCT TTTCATATTC 600
CTAGATCCAC TCACTTCTCA TCATCTTTTT TTTTAAACAA AATTTTATTG
AAAAATGTAA TATGACGTGT CAAAGTTGTA AAGTTATTGA GTAAATAAGC 700
ATGTATCCTA AATATTGAAA AATATTCTCC TTTTGTACCA GGCTATGTGT
CACGGCTTTG GCGCTTTGCA CAGACTATTA GAAATACCTT ATAACATTAA 800
AAATAGGACA TTGAGGCCGG GCGTGGTGGC TCATGCCTGT AATCCCAGCA
CTTTGGGAGG CCAGGGTGGG TGGATCACCT GAAGTCAGGA GTTTGAGACC 900
AGCCTGGCTA ACACGGTGAA ACCCCGTCTC TACTAAATAC AAAAAATTAG
CCGGGCATGA TGGCACATGC CTATAATCCT AGCTACTCGG GAGGCTGAGG 1000
CAGGAGAATT GCTTGAATCC GGGAGTCAGA GGTTGCAGTG AGCCGAGATT
GTGCCACTGC ACTTCAGCCT GGGCAACAAG AGTGAAACTC TATCAAAAAA 1100
AAAAATAGGA CATTGAAGTT GGTTTCTTTT TTTGATACAG AGTCTCGCTC
TGTCACCCAG GCTGGAGTGC ACTGGCAGGA TCTCGGCTCA CTGCAACCTC 1200
TGCCTCCTGG GTTCAAGCAA TTCTCCTGCC TCAGCCTCCT GAGTAGCTGG
GATTACAGGC ACGCGCCACC ACGCCTGGCT AATTTTGTAT ATTTAGTAGA 1300
GACAGGGTTT CACCATGTTG GTCAGGTTGG TCTCGAACTC CTGACCTTGT
GATCCGCCCA CCTCAGCCTC CCAAAGTGCT GGGATTGCAG GCGTGAGCCA 1400
CCGCACTCTG CTTTTTTTTT TTTTTTTTGC CGCCCTCTCA CATACCATAC
TCCCCTGTAT CACTTATCCT TCTGAAGTTG TTATTAATCA TTAATACAAC 1500
TAGCTGGGCA TAGTGGTGTG CGATGGTAGT CTTAGCCACT CGGAAGGCTG
ATGTGGGAGG CTAGCTTGAG GCCAGTAGTT CTAGGTTAGG TGAGCTATGA 1600
TTGCACCATT GCACTTTAGC CTGGGTGAGA GCAAGCTCCT GTTTCAAAAA
AAAAATTAAT TGCTACCACT TACTAAATGC TTAATATATG GCAAACACTT 1700
GCCAAACACT TTATATGCTT GATTTAAGCA TCAAGCTAGC TCTGTGAAGG
GTACCAGCAG GTTTCCCATT TTTTAGATGA GCAGACCGAG GTTCTTCTCG 1800
CTGCTTCATA CTGGAAACTT GCACTTGATT CTGAGGCTCC TGCTTCTTCA
AGAACACTGC TTTGGGTTCG CTTCTCCTGT CCCTGGGGTC TCCCTTTGTG 1900
ATGGTGGTGA GCTGCTTCCT TTCTGAATCC AGCTTCAACC CTACAGTTCT
CCAGAAGCTG GACGATGGGG TGGAGTAAAG TCAGCTCCCC CCGCAGTGAG 2000
GGACACTGAA GCTCCATTCT CATCTGCGGA TCACAGAGGG GAAGCCAGGA
AGAGCCAGGG GACGGTGGAC TTGGGGCTGG GAGGTCATCT CAGAGGGATA 2100
AGGGGTGAGG AGCTCTGGTT TCAAGTTCCA AAGCCCTAGG ACCTCCCTCT
TCTCTGTCTG CCTGCATTTC TAGCAGCCTC AGCAGCTGCA GGCCCTTGGG 2200
CGGGGCTGGA TGTAGGGAAG GTCATTGTAC CAAGAAGATA GTTGGGTAAA
TGTGGTACCT TTGTTGTAGG ATTCTCTTGG GAGATGTCTG CATCAATGAG 2300
GATGGCATAA AGTAACCAGA GTCAGGATGT GGGGTCTGAC TCAGTGACAG
AAAAAGTGGC AGTGTGTCTC TCATAGCCAA AGGGGCCCTT GGACCGGCAG 2400
TCGGGAGTCT GGGGTTCTCT GTTGGCTCTG CCTCCTGGCA CATTGGGTTT
CTGGACCTCA GTTTTCTCCT CTATAAAACC GGGCAGTTGG GTGGGCACGG 2500
TGGCTCACAC CTGTAATCCT AGCACTTTAG GAGGCTGAGG TGGGCAGATC
ATTTGGGCCC AGGAGTTCAA GACCTGCCTG TGTAACATGG TGAGACCCTG 2600
TCTCTACAAA AAATACAAAA ATTACCCAGG CGTGGTGGTA TGCACCTATA
GTCCCAGCTG CTTGGGAGGC TGAGGTGGGA GGATTACTTG AACCTGGGAG 2700

FIGURE 1A

```
GTCGAGGCTG CAGTGAGCTG CGATGGTACC ACTGCACTCC AGCCTGGGAA
ACGGAGCGGA CCCTCAAAAC AAAAACAAAA ATGAAAAACA AGCAAACGAA      2800
GAAATAAAAA AACCTAGGGG GTTGTAGTCG ATGATCTGTA AGGTGAGTTA
TAATTGATGT ATTGGAATAT TTAGGAAAAG GGCACTGGGA ATATGCTAGG      2900
AACACCTGAT GGAGGTATCT TTATTTCCAC GGCAGCTTCG TGGATACGTC
TCATTGATTC TCATGGCATC ACTTTCCCCA TGTAGGTGGG CAGACATTGT      3000
TACCCCTGTT TAATAAACAA GGAACCAACA GAGGCTTAGG AGAGGAGTTG
CCTGATGTCG CATGATTGGT GGCAGAGCCA GGATCAACAG TGGGGCAGGG      3100
TGGGGGGACC TGGCCAGGCA GAGACTGGAT GAGACCTGGG GTGAGGAATG
 T
GCAGGCACCC AGTCAGGGCA GAAAACGAGG GTTGGGACTT ACTTTGAGTT      3200
TTGGATTGGA TCAGTAAATT CCCAAGAAAG AGGGAGACTA GGAGGCTAGT
GAAGAACTCT GGAGTAAAGG GGAGGATTAC TAAGGGACAT GGAGTACCTA      3300
TCATGTGTCG GACGCTTATC TATATCTCTC CCATCTGAAC AAATCCTTAC
AGGAACCCCA GGAGACAGGT TATCTCCACT CTGCAAATTG GAAAACAGAT      3400
CCAGACAGTT TCAGTTATGT GTCTGAGAAG TTCATTTATG TGTCCAAGAC
        G                                   G
ACATTCTTAG CTAAAAAGCT AAGCATTCTG AATTGGAACC CAGAGAATTT      3500
GACTCCCAGA CTCTGGATCT TTTCACTGCT GTGATCCATC TGGGAAAGGC
TAGTGATGTG GGCAAGGGGC TTATTGCCCC TTGGTGTTTG GTTGGGAGTG      3600
GTCGGATTGG TGGGTTGGGG GCACAAGGCA GCCAGATCTG GGACTCCTGT
  G
GCTTGTGACT GGACTACAAA GAGTTAAAGA ACGTTGGGCC TCCTCCTCCC      3700
GCCTCCTGTG GCCTCCTCCT CCAGCTCTTC CTGTCCCGCT GTTGCAACAC
TGCCTCACTC TTCCCCTCCC ACCTTCTCTC CCCTCCTCTC TGCTTTAATT      3800
TTCTCAGAAT TCTCTGGACT GAGGCTCCAG TTCTGGCCTT TGGGGTTCAA
GATCACTGGG ACCAGGCCGT GATCTCTATG CCCGAGTCTC AACCCTCAAC      3900
TGTCACCCCA AGGCACTTGG GACGTCCTGG ACAGACCGAG TCCCGGGAAG
CCCCAGCACT GCCGCTGCCA CACTGCCCTG AGCCCAAATG GGGGAGTGAG      4000
AGGCCATAGC TGTCTGGCAT GGGCCTCTCC ACCGTGCCTG ACCTGCTGCT
      [EXON 1: 4019..
GCCACTGGTG AGACCAGGGA CAAAGGGAAG AGTGGGCTGG TGGGCGAGGC      4100
   G                                 A
                  ..4052]
ACCTTCCGGC TGGCGTGGGC CCTCTCCGGG AGGGGGCCGA GCCTCTCCTG
CCCGGGCCTG GTCCTGGCGC CAGCCTCAGG CCTGCAGGTC CTAACCTCAG      4200
CCACTGCCAG TGTGGGGTTC CCCATTCATC CGCCTTTTGG AGTAGGGGCT
GCGCTGAGGC AGGGGAATGG GAGAAGTTTG AAAGGGAGAG AGTAAAAGGA      4300
AGCCCTGGCC CCTGACAGCG GTGGAAGTTT GTGGGCGGCC AAGGGAATGT
GGGCAGGAGA TAGGCCCAGG GTGGGGCAGA TTTGGCGGGG AAAAGAAGGG      4400
AGTGGGAGTA GGAAGATTAG TGCTCGGGGA GTCCAGACGG TTCTGAATTC
TGTCCCTCCG GTCAGCTGGC TGGCCTGGAG GGTGTTGGGC CGTGGGGAGG      4500
CGAGGCTGCC TGTGGAACTT GGTGGAGCAC ACCCTGTAGG GCAGGATTTT
GGCGGCTGGT GAAGTGGGGG AGTGAGTTGA GGAGTGGGGA TGGGCTGGTG      4600
TGGTGGGTTT GGGATGCTCA TGGTGGGAGG TATTTGAGAA TGGGCTGGGA
CACTGGATGG GGCAGGGCAA CCCAGTGGAC AGTGTCCCCA GTGCCCTGGC      4700
CAAGCCCCGG CCTCTCACCT GGGGACATTC TTTACCCTTT TGCCTGCTGC
TAGGCAGGTA GCCGCTGTGG GACTGAGCCT TCCCAGGGAG CTAGTCCTAC      4800
CCCCACCTGG TCAGTGTCCC TGGGCCTGTC CTCCAGCTTC CCCTCCCCGC
TGCTTCTCAC AGACCTAAAC AACAATCCCT TGGTTTCTTA TTCTACAGTT      4900
CAGTTTGGGG AAGTTGGTAG AAAGTTGTTT TCGTCACTGG AAAATGTCCC
TTTCTCTGGC CTCAGCCTTG TTTCAATGTA TCCTTGATCG TCCTCCACGT      5000
CTTGGTCCGG GAATCATCCT GTTCAGATGT CCTGGGCCCA TCTAGTCAGG
CAGATTTTCC CTGCCCTGCC CGGCCTCTGA AGGCTGCGCC TACCTCCCCT      5100
CTCTTTAGTG CCTTATACTC TTCCTCTCCT ACCATTCCTT TCTTCCAGCA
ATCTCCCCAG ACTCTCCTCA GACTTCTCAG AGCCTCTTTT TTTGAAATCT      5200
```

FIGURE 1B

TTTCTCGCTA ATCCTCCTTC CCCTCCTCTC TGCTCCGCTC TGGTCCCGGC
CCCAGGTCCC CAGGCAGCAC GTCTCTGGTC AGGGTCTCAC TCTTCTTCTT 5300
CTGCCTCCTC CTGCCTCCTT AGTCCCACCC GCTCTTCCCT TCTTCCCACT
GTCCTTCCCC CACGGTCTCC CCACCAGCCA GCTGCCCTGA CATCCTGCTT 5400
CTGTTTTCTG TTTGGGGGCG GCCCCTGGCT CCCTCACATA CCTCCTGCAT
GAACAAGAGC AGCTTATATA ACCTAACCTT CCATGCCTTC GTTTCTTTAT 5500
CTCCAAAATG GGTGTCACAG TCTTGACCTC ATACTGTTGT TTTGAAGATT
GAATAGACTG ATACATGTTA AGTGTTCATT TGATTTATTA AGTGTGCGCT 5600
CTGGGCTAGA CACTGTGATA GGTGCTGGGA TTACAGCAGA GAACAAAATC
CCTGCCCACA GCTTTGACAG TCCATCAGGG GAATAGGTTG TAGCAAATAG 5700
AAAGCACTCA ATAAAGTTTT TATATTGCTG TGACTAGTAG TAATTACTGG
GTGGCTACCT GTGTTGGGAA AACAGAGGGT AAAGGTAGCC TGAACAGGTA 5800
AAGGGAAGTG CCTGCGTCCT GGGGTGCTTC AGCCCAGGTG GGATTATGTC
TCCTAAGGGA CAGAAGCCTG GCCTGGAGCT GGAGGAAAGG GAAAACAAAG 5900
GGAATGCAAC ATCCTTCTGA ATTTCTCACC ATTCAGTGGG CAATGCAGAG
CTCACAGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GAGAGAGAGA 6000
GAGAGAGAGA GAGAGAAGTG GGGTAGGGGA GTAGGGAAGA ATGATACAGG
AGAGACTGTG GCAAAGCAAA CAGGATTTTG CTGCTCTCAA AGAGCTTACA 6100
GCCTAGTAAC CAAGATGGCT TACAGTGAAA AATGATTTCA GAGCAATCCC
GAGGAAAATA TCCACAAATG CATTGTGATG TGGTGTCCTG GAGCACCAGT 6200
TGGGAGGAGG AGGAACTGGG GAAGGAGGTG AGCCTTAGTC CACTGCCTTT
CCTTGCTTAG CAGGTCTCAG CTCCTGCGCT CAGCTCCAGA AAATTCAGGA 6300
GCTTCCCCAC GCTGCTTCAG TGTCCTTCAC TGTGCAACTG CAGCACTCCC
TGTATAGATC TCAGTGCCTA CAACTGACTG TCTTTGACTC AAGTGAGAGC 6400
TCTTGAGAGC ACGAGCTGTG TATTATCCAC CTCAGCATCC CTAGCACCCA
TACGGGACCT GTCACATTAA CTGTGCCCCT TAACTATTTG CTGAAGGAAT 6500
TAAGGAACAA GAGATGTGTC AGATGGGATG GCGGAGGGAA AGCCTCATAG
AAAAGTGGAT GTGGAGCTGA CATCTGAAGT CACTGCCTGT CAGGGTAGCT 6600
ATAAAGGAGG GAAGCAGAGT TGGATACTGA TGTGAGGAAG AGGAGAGGAA
TGGAGAGATG GGATTTTGTG TTGATGGGCA GGGTGGCAGG AAGCCAGACA 6700
CCTTGGTTCG GGAGTGGAAA AACCATGTTG AGAAACACTA AGAAATGTGA
ATGGGAGAAT TAGAGGGAGT GGGGGAGAGG ATGGAGGAAG AGTGTTGAAT 6800
ATGGTTCCAG GTGGAGGAAT TCATTCATTC GTTTATTCAG AAGCTGTTCT
CCTAGGGCAC ATTCTGTGCC CAGACTGTGA TTAGAAGTGA GGTGAGGCAT 6900
CTCAGATGGG TGCTGTGGTT CATGCCTGTA ATTCCAGCAC TTCAGGAGGC
CGAGGTGTGT GGATTGCTTG AGTCCAGGAG TTCGAGACCA GCCTGGGCAA 7000
CACAGCAAAA CCCTGTCTCT ACAAAAAATA CAAAGATTAG CGGGGCATGG
TGGGGCGTGC TTGTCATCCC AGCTATTCGG GAGACTGAGC TCGGGAGGAC 7100
GGCTTGGGCC CAGGAGGTGG AGGTTGTAGT GAGCCCTGAC CACACCACTA
CATTCCGTCC TGGTGGTGAA GGTTGCAGTG AGCTATGATT GTGCCACTGC 7200
ACTTCACCCT GGGTGACAGA GTGAGACCCT GTTTCAAAAA AAAAAAAAAA
AAAGTAGTGA GGCATCTGTG GAAGTCTTCA GATCATTTCC ATGACCATGG 7300
AAATGCTGTT TGGAGCCAGG CCCTGGAGAT GGAGAGGAAG GTTCACACAC
TTGTGCGTGC AAGTTAAAGC CTGAATGAAG ATTTAAAAAG TGTGTAGGAC 7400
GGATGGGAGC AGGAGAGAGG CTAGAAGACA CTTGCAATAA CCCAGGTGTG
AGGCAACCCA GGAATGCGGA GAGGACCGAG AGATCACAGG GGGAGGCCTC 7500
GCAAGATGAA CTGACACATG GGATGGCGGC AGGGATAGGG ATGGGGCCCT
GGGGAGAGAG CGTGGCAAGT TCTCAGCATT CGTCCGGGAA GTCGATGGTG 7600
TGTCATTTGT CTAGGTGAGG AGATGGATGA ATTCCGTCTG GGGCATGTTA
AGGGTCAGGG AAATGGTCAT GTGGAAGGGT GCGCCTACCA AGCTGGAGGA 7700
GAGGTGCTGC AACTTCTTTC TGCCTTTGTA TCATTCAGAC ACACTGTGTT
CACTCATCAG TGGTTCTCAA AAGGAGAGGA GCACACCAGA CTCTTAAGTA 7800
AGGGTGTGTG TGCTTGTGTG TGGGGAGGTG GGGGGATGGT CTGAAAACTC
TCCCCCGGAG ATAAATATAT TCCTACCAGG GGTGCTGTCT CCTCACCTCC 7900
CTCTTTGGGA ATCACTGGCT TCTACTAGAG TGGAAGACAG ATGTATCATT
AGATCGATCA GTTGATCCAT ATTTATCTGC TCCCAGTCTG GAGGTCTGGT 8000

FIGURE 1C

TCTGGGAGCT GAGAGGACAC CAGGGGAGGA TAAGACACTT TCTGACCAAG
ACATTTTTTG ATCTCTCATC TTATAAGGTT CGTGGTCACT TTGGGGAGAT 8100
CATATCTGTC ACCCAACATA ACCATATTAT GATAAGAGCC AAAAGTAGAT
AGGGTCAGTT CACGTGCTTC GAGTTCACAG GGACTATGGG TCTAAGGAGC 8200
CGGGGTGGAG GAAACAGACA TCGTCAATGG TGGCTTCACG GGAGGGAGAT
GGGATCTCAA CTGGGCCCTT GGAGGAGAAG CTGCCACGAC CTCCCCCAAC 8300
ACCTTGACAT TAAATGAACA GACACATGAA TGAGGGGGAA AGGAAGACTA
ATTGGGTCCC TGCAAGGTGG CTGGATCGGG GTCAGACCAC AAGGCCGATC 8400
TCAGCGTCGC CTCCCCACTC TGCAGCCCCA GCACAGGAAG TCACACTTTA
AAGCCTCCTC TGGCGGAAAT TGTGGGGGAG TTGGAGGGGT GTTGGGCCAC 8500
CCCCTCAACT GTCTCTCCAC AGGCACCCCA GCTTCCTGCC CTTCTGCTCC
AGGCTGGAGT CTGGGCCTAA AGAGCTCACC TCCTGTTTCT CCTGTTTTGC 8600
TTCATTTACG CAACTGCTGA GGACTGGGCT TACTGGGGCC AGCTGGTGCC
AGCAGTGGTG CCCAGTGGTG GGGAGTCTGA GGGCCCTGGC TCCTAGGGAT 8700
CAGAGAGGGC TGACCTGGAG CATTCTGGGG GCCAGGGGAA GCCTAGGAAG
CAGGGCTGGT TCTTCCATCC GGCATCCCTT CTTGCCTGCT CCCTCGTTCC 8800
TGGAAGTGGG TGTTCAGGGC TCTGGAGGCT TTCCTGTATT GCCAGTGGGC
TTGGGGAGGG TCTGTGGAGA CTCAGAACTG GCCTTGTTTC CTAAGGATTG 8900
TCTGGGGACC CCAGGGAGGC CCCCAAACCC AGCACAACTG GTCAGAACCA
GCCAGGCTGT GGGAATGCGG TGAACCCAGG GTGGGAGGGC AGCCTTGGCT 9000
TGCTTCCTGC TGGGACTGGG GAGTGTTGGG GGATGGAGTG AGAGCTCACG
GAATGGGTTT AGCTGTTGGA GACTTGTTGA ACTGGGAGGA GGAGCTGGGG 9100
CGGGGCCTCA GCTAAAGGCC GCTGAGGGGC TAGGAGGAGC CAAGTGGCCC
TCAGGGAAGG GAGGGCACAG ACCTGATGGG CGGAAGCCAG GGTCGAGGGA 9200
GACTTCCCTT CGGGATGGAA TGGGGAGAGG GAGGCATTTC CCGGAACATG
TGGGCCAAGT GGGACAAGGG TCTGTGGCCT GGCTCTTTGC ATGGGGAGGG 9300
GATGGATGGG GGTTGAGTGG GGATGGGAAG GAGGGACTTG GCCATAGGAA
GAAGGGATTA GATGGAGTCC CACTTGCATG CAGGCTGGTG CCTTCTGCCT 9400
TTCTGCTGAC TCATGACCCT TGAGGAGCTG GGGAAGCTGC TAGTTCCCTC
TCCCCTCCCT AGGTCTCCCT CCCTCTGGCC TGAGTCACTG GGGCGGAGTT 9500
GCTGGGAAAA GATTTCCCTT TCCCGGATCT GACTTAACCC CCAGAGTGCT
GGAAAGAGAA GGGAACACGT GGCCTGAGAA AGCCTCTCTC CCTCCCTCCC 9600
TCCAGGGAGG CTCATCCCCC ACTGGCCAGA GGTCCCTGAA AAGCTCCCTT
TAAGGCTGTC TGGGGCTGGC GTCCCCCAGT TCTTCATCAT GACTCTGCCT 9700
CAAGCCCCCT GGATGGGATT CAAAGTACCA GTGACCTTAG GTGCTCCAGT
GGCTTCTTCG GGGAAAGGAA CCACACTTTC AGGACTGGGA AGTTCTTCCC 9800
ATCACCACCC CAAACCCTTC CTGTTGCCCT GGAAGCCCCA GTCCTGTTCT
CAGCAGAGGT GGCACGGTGT TGGCTGGTGC GGGCAGGGGA AGGTTGTTGT 9900
CCTCTGAGCA GGGGCACACG CCTCCACCTG CGGGGGCTGC TGTTGTGTTT
CTGTGTGTGG CTTCCCCTGT TTGCGGCTGA GGCTTGAACT TCCGGGCCTG 10000
CACAGCTTAC AGCTGCAGCG TCTCCCCGTG GCTGACTCAG GGTGACTGGC
CTCCTGCTCC GAAATGTGGA GTTGGTGAGG CTGGGTGGCT GTGGGCTGCC 10100
TGACCCTCCT TCCCTGCCCT AGGGTTTCTG TGATCTGGTG AGTCAGTTGC
TCCCCAGTGT TTAACAGACA TTGAGGACAC CCTCTTATCT TTACACAAAG 10200
TGTCTCTTAT AGTAGAAAAA AAAAATGAAG CCCAGGGAAA ACCAGAAATG
AAGCTGGCAG AGATCAAAGT CCAAGTTAGA GCTAAATATT CACTCCTGGC 10300
TTTGCTTTCC TGGCACTGAT GCCGGAACAG GACAAGCCAT TTAGCTGCTG
TGGGGTTGGC CTGAGACTGC AAAGCACACC TTCCAGAATG CCATGGTGTG 10400
CAGGGGGCTC CAGGACTCCC CAGCACGCCC TCAGCTCTGA CCTGACAGTC
ATCCAAGCTG GGTCGCTAGC CTTGGCCAGC TCTATTTGCC TATGTCCTGC 10500
ACACCTTTGC CCACTCCTGC CCCCGTCTCA ACTTTGTCCC CCGTCTACCC
ATGCAGGATC CCCAACCTTT CCCTTTTACT CTCCTCCCCA TTTGTCCTTG 10600
CCAACCCCGG GTGTTTGTAA ATTTTGAGGT GGAGGGGATG GGCCAGGGAA
TGTGAGGGCG GAGGCAGATT GAGGTTTGAT ACAAACATGT AAATAAACTT 10700
CCTTCTTCTG TCCACTCCCC AGGAGTGGTG CTCACGGGAA CATCACTCGC
CCCCACCGCC AGCTGACTTT TTCAGAAAGC TTTTCATGGT GTAACATATT 10800

FIGURE 1D

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CCTGGGATGT GCATAGATCC TCATTGTTTA CCTCTGTGAA TGTTCGCAAA
GCGATCACAC GGTGAACCCA GCACCCAGAT GGAGAAACAC CGCCCCAATC      10900
TTTAGGGCTG CTTGTTGGAA GAAGGGGCCA TCACTGAAGT AACCTGCCAA
TTCCCAATCA AAAACACATC CTTTCAACAT CTGCCCTGTG TCCAGCACTG      11000
TTAGCTGCTG TGGGGGATTT CACAGTAAGG ATAAAATACA GGGCTGGGCT
CACGCCTGTA ATCCTAGCAC TTTGGGAAGC CAAGGTGGGA GGATCACTTG      11100
AGCCCAGGAT TTTGAGACCA GTCTGAGCAA CGTAACAAGA CCCTGCCTCT
ACTAAAAATA AAAAAAAATT AGCTGGGCAT GGTGGTTCAC GGCCGTAGTC      11200
CCAGCTATTC AGGAGGCTAA GGTGGGAGGA CTGCTTGAGC GTGGGTGGTG
GAGGGTGCAG TGATTGCATC ACTGCACTCC AGCCTGGACA ACAGAGCAAG      11300
ATCCTGCCTA AAAAAAAAAA AATACAGCTT AGATCTGGGG CCTACTAGCT
TTGAGTTGAG GGAACAAAAA TGAACACACA GGACAACTAG AGAACAATTA      11400
AGCATCAGAT TGTATGGCCC CAACTGTCTA AGTTTCAAGG AAGAACTCTA
AACTTAGTGA GTGGCGTGGC CTGGGCGGAA TGTTTCACTG AGGAAGGACT      11500
TGAGCCAGGG AAGTTTTAGA TCTGCTACCC CTAAGCTTCC CATCCCTCCC
TCTCTTGATG GTGTCTCCTC TATCTGATTC TTCCCCAGGT GCTCCTGGAG      11600
     [EXON 2: 11584..
CTGTTGGTGG GAATATACCC CTCAGGGGTT ATTGGACTGG TCCCTCACCT
AGGGGACAGG GAGAAGAGAG ATAGTGTGTG TCCCCAAGGA AAATATATCC      11700
ACCCTCAAAA TAATTCGATT TGCTGTACCA AGTGCCACAA AGGTAGGGGC
                  ..11742]
AAGTGGAAAC GGTGAATGCC CTCAGGTCTG GGGTGCTGCT TCTTTCTCTG      11800
CTTCTTCCAG TTGTTCTTCC CTAACTTTGC TGTCTCTCCT GGGCTGGGAT
TTTCTCCCTC CCTCCTCTCC TAGAGACTTC AGGGAATCGG CCCTGGCTGT      11900
TGTCCCTAGC ATGGGGCTCC TTCCTTGTGT TCTCACCCGC AGCCTAACTC
TGCGGCCCCA TTCACAGGAA CCTACTTGTA CAATGACTGT CCAGGCCCGG      12000
                                                    T
     [EXON 3: 11968..
GGCAGGATAC GGACTGCAGG GAGTGTGAGA GCGGCTCCTT CACCGCTTCA
GAAAACCACC TCAGACACTG CCTCAGCTGC TCCAAATGCC GAAAGGGTGA      12100
                  ..12096]
GTGTGCACAG GCAGGAGAGT CAGGCGGGTC TTGAGTGGTG TGTGGGTGCC
TGTCTATGTG CAGGCTGGTG GGTGTGGGCA GGAAGGTGTG TGTTTTGGTG      12200
GGACACTGCA TGGATGTGAG TGTGTATTAC AGAGACACAC ACTTAGGGGT
ATGTCAGGAA GGGGATGCAG GGACAGGAGG ATGCAGGACT CATACCCCAT      12300
CTTCTCCCCT CACCAGAAAT GGGTCAGGTG GAGATCTCTT CTTGCACAGT
     [EXON 4: 12317..
GGACCGGGAC ACCGTGTGTG GCTGCAGGAA GAACCAGTAC CGGCATTATT      12400
     A                                                 C
GGAGTGAAAA CCTTTTCCAG TGCTTCAATT GCAGCCTCTG CCTCAATGGG
ACCGTGCACC TCTCCTGTGA GCGCAGCTCT CCTGAGGCCA AGCCCTCTCC      12500
                                          T
                  ..12466]
CCACCCCAGG GGTTGGCCCC TTCCCCATGC GGTGGCACTT CCTTTCCTTC
CCCCTCCTGT ATTCTGTGGG TCTGACAACC AACTCCTCTC TGGCCGCCCC      12600
CACCCTGTCC CTCGTCACTT CCTCTGTCCT GTGGGGTGGG GGTGCAGGCG
CTTCTCCTTT AGCTGTGCCG CACTTCTCCC TACAGGCCAG GAGAAACAGA      12700
  C
     [EXON 5: 12686..
ACACCGTGTG CACCTGCCAT GCAGGTTTCT TTCTAAGAGA AAACGAGTGT
GTCTCCTGTA GTAAGTGAGT ATCTCTGAGA GCTGCTGGGC ACTGGATGGT      12800
                  ..12764]
GGCATGGGTT GGGACGGGTG ACTGGTGGGA ACCATTAGCT GGGCAACAGA
TGCCAGGATG CCCCAGAGTG CTCAGGGTCC TACTGGCTGA GTAGGAGACA      12900
CTTCGTTAAG ACACCAGGCA GTCCTTCCCC TTGCTCTTCA AATCTGAAGA
AGTCTTTGAG GATGGAAGAT CATGCCCCAA GGGCTGGCAG CCCTTCCAAC      13000
```

FIGURE 1E

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TCAGATATGT AGATTCTTGG ATCTACGATA GCTCATTGGT TCTAGGACAT
ACACTCTTAT AGCTCTGAAA TCAAACCTCC TATAACTGGT GACTCATCAT      13100
GGTTGAATTG GCAGCTCTGT TTGCGTCTGG GTAGTAATGT AAAGAAAAGT
GCCTTTTATT CTTGATGGCG TCTTAGGTTT GATGCAATAT GGTATTTCCT      13200
CATTAGTCAC TGTCCAGGCC TCCTTACTCC TGGCTCCACA GAGGCTGTTC
TTGTCACTCA CTTGCAAAGA ATAAACTCTG AGGGCTCTCA GAGTTTGAAC      13300
CCCAGCATAG CCACTTACTG GCTATGTGAC GTTGGGCAAG TTTCTTAACA
TCTCTGAGCC TGACTTTTCT TTTGGTGTTT TTTTTTTTTT TTTTTTTTTG      13400
AGACAGGGTT TCACTCTGTC ACCCAGGCTG GAGTGCAGTG GTGCAACCGT
GGCTCAGCCT CCACCTCCAG GGCTCAAGCC ATCCTCTTGC CTTAGCCTCC      13500
TGAGTAGCTG GGATTAGAGG CACACACCAC TACACCCAGC TAATGTTTTA
CTTTTTGTAG AGACAGGGTC CTACTATATT GCCCAGGCTG GCCTCGGACT      13600
CCTGGGCTCA AGCGATCTTC CGCCTCAGCC TCCCAAAGTG CTAGGATTAC
GGGCATGAGC CACCACGCCT GGCCTGGGCC TTAGATTTCT TATATTTAAA      13700
GTAAGCATAA TGACATTCAT TTGGTGAATT TGTGAGAACC AAAAACAAAG
AAACAAACAA AACCTACAAC ACGTCTGACA CAAAACTATT TATTTTCCAT      13800
TAATCTTCTT TTTTTTTTTT TTTTTTTTTT TTGACACAGA GTCCTGCTCT
GTCGCCCAGG CTGGAATGCA GTGGCGCGAT CTCGGCTCAC TGCAACCTCT      13900
GCCTCCCAGA TTCAAGCAAT TCTCCTGCTT CAGCCTCCCA AGTAGCTGGG
ATTACAGGCA CGTGCCACCA TGCCTGGCTA ATTTTTGTAT TTTTAGTAGA      14000
GATGGGGTTT CACCATCTTG GTCAGGCTGG TCTCAAACTC CTGGTGATCC
ACCTGCCTCT GCCTCCCAAA GTGCTGGGAT TACAGCCGTG AGCCACTGCA      14100
CCCAGCCGGC TTCATCTCTT CTTGAAATCA CTTTTATACC ATTCTATGTG
GTTCTCACCA TGAGCTTGAG TGGTGGGCTA AAGTGCCTCT CCCTGCTTTC      14200
AGCTTCCTGC TGGGAACTCA CTCTCTCAAG TTCCTTCCAG CACCACCCCA
TAGAGTTCCC ATCACTCCAC ACTGTCCAGT GACAACTCCC AACATGGAAG      14300
ATCTGCTAGT TCTACAGGGT GCTCTCTGGC TGCCCCAGTA ACATGTGTTT
TTAAATTTTT CACATGCATG TTTGACCCCG ACTCCCCGAA GTCAGGTACT      14400
GTAACTAGCA GTGTCATTTA AGAAAAAGCC CTTTAACCTC TCTTTGCCAA
AGGATTCTTA TCAGCAAAAC AGTGATGAAA CAACAATCCC ATAACAGCTA      14500
GCTGGCTACC TTCTCAAGCA CTTATTAAAT GAGGCATAAT GATTTTGCTT
AATCCTCAAT CCTGAGAGGT GGGCGATCCC TGTGGTGATG AGGAAACCGA      14600
GGCTTGGGGG TTAATGGCTT GCCTAGATTC ACACTGCTAG CCAAGGAATG
AACTGGAATT TACACCCTGA CCCTGACTGC TTTTCACATT TTCTACACAG      14700
CCTTTTCAAG ATCCCTGCCA ATTCTAAAAT TAAATGATTC TATGATTAAC
TGTGTTTCAT TCTTCTGCAT CAGTTCCCAA AACAAATTAT ATCAAGAGAC      14800
AGCAAAAATA TTTGTAAAGA AAGGATGTCC AACAATCTGT GTGGTTGTTT
                          A
TTCTGTGTTC CTCCAATGGT AGGGCCTCTG TTCACCAGTG CCGTCTCTTC      14900
TTTTAGCTGT AAGAAAAGCC TGGAGTGCAC GAAGTTGTGC CTACCCCAGA
     [EXON 6: 14907..
TTGAGAATGT TAAGGGCACT GAGGACTCAG GTGAGGAGAA GTGACCTGGT      15000
                                           G
                ..14980]
GCCCATGCTC ACCTGCCCTC TCCCTCTTCT TGCCCCCACC CGTCCATCCA
TCCCACCCAT CCATCTATCC CTGCGGCCCC CCTCTGCCCG CTCCTCTGAC      15100
                                        T    T
CAACACCTGC TTTGTCTGCA GGCACCACAG TGCTGTTGCC CCTGGTCATT
     [EXON 7: 15122..
TTCTTTGGTC TTTGCCTTTT ATCCCTCCTC TTCATTGGTT TAATGTATCG      15200
CTACCAACGG TGGAAGTCCA AGCTCTACTC CATTGGTGAG TGGGGGCTTT
                ..15235]
GGGAGGGAGA GGGAGCTGGT GGGGGTGAGG GAGGACATGG GTGGGTGCGA      15300
TGGACATGTG TGGAGGGAGG TGAGGAGTGT CCCCTCAGTT CATACCGCTG
GGGACTCTGG GCAGAAGGTG GCCCTGGATG GCTGGGGAGA TGTCGAGCTG      15400
CATCAGTAGC TCTCTCGTCC CTGGGGCCAC ATAGGCCCTG AGGCATGTCA
```

FIGURE 1F

CCACAAGTCC CCACTGCCAG CTGAGTCCAG GGTGCCAGGG CTGAGAGAGG 15500
AAGTGAAATT TATGATGCTT TCTTTCTTTT TCCTCAGTTT GTGGGAAATC
C
[EXON 8: 15538..
GACACCTGAA AAAGAGGTGA GATGAAATGA GAGAGTTACT CCCAAATGTC 15600
..15566]
CCTGACCATT CCTTATAATT GCCTAATGCT CAGATCCCCT GGAATCATCC
TTCACTTTCC GGGGGCTCGC CTCATTCCCT CTAAGTCCCA ACCCCCACGT 15700
AGAATAAAGA GGGCCGGGGC TGGTTTTCGC TGCCGCACTA ATGTGCGCCA
CCTTCTCTCT TTCAGGGGGA GCTTGAAGGA ACTACTACTA AGCCCCTGGC 15800
[EXON 9: 15766..
CCCAAACCCA AGCTTCAGTC CCACTCCAGG CTTCACCCCC ACCCTGGGCT
TCAGTCCCGT GCCCAGTTCC ACCTTCACCT CCAGCTCCAC CTATACCCCC 15900
GGTGACTGTC CCAACTTTGC GGCTCCCCGC AGAGAGGTGG CACCACCCTA
A
TCAGGGGGCT GACCCCATCC TTGCGACAGC CCTCGCCTCC GACCCCATCC 16000
CCAACCCCCT TCAGAAGTGG GAGGACAGCG CCCACAAGCC ACAGAGCCTA
GACAGTGAGT TTCTCCCGCG GCTGGAGACG AGGAGGCTGG GGGAGGGCCG 16100
..16054]
GGGGAGCGCG GGAGGCGCTC CCAGAGGGGA CCACGAGAGG CGGAGGGCGC
GGGATGCGGG GCGGGGCCTG GGGTTGCCGC CCGAGGCTCA CCGGCCCGCG 16200
A
TCCCCGCAGC TGATGACCCC GCGACGCTGT ACGCCGTGGT GGAGAACGTG
[EXON 10: 16210..
CCCCCGTTGC GCTGGAAGGA ATTCGTGCGG CGCCTAGGGC TGAGCGACCA 16300
CGAGATCGAT CGGCTGGAGC TGCAGAACGG GCGCTGCCTG CGCGAGGCGC
AATACAGCAT GCTGGCGACC TGGAGGCGGC GCACGCCGCG GCGCGAGGCC 16400
ACGCTGGAGC TGCTGGGACG CGTGCTCCGC GACATGGACC TGCTGGGCTG
CCTGGAGGAC ATCGAGGAGG CGCTTTGCGG CCCCGCCGCC CTCCCGCCCG 16500
CGCCCAGTCT TCTCAGATGA GGCTGCGCCC CTGCGGGCAG CTCTAAGGAC
..16520]
CGTCCTGCGA GATCGCCTTC CAACCCCACT TTTTTCTGGA AAGGAGGGGT 16600
CCTGCAGGGG CAAGCAGGAG CTAGCAGCCG CCTACTTGGT GCTAACCCCT
CGATGTACAT AGCTTTTCTC AGCTGCCTGC GCGCCGCCGA CAGTCAGCGC 16700
TGTGCGCGCG GAGAGAGGTG CGCCGTGGGC TCAAGAGCCT GAGTGGGTGG
TTTGCGAGGA TGAGGGACGC TATGCCTCAT GCCCGTTTTG GGTGTCCTCA 16800
CCAGCAAGGC TGCTCGGGGG CCCCTGGTTC GTCCCTGAGC CTTTTTCACA
GTGCATAAGC AGTTTTTTTT GTTTTTGTTT TGTTTTGTTT TGTTTTTAAA 16900
TCAATCATGT TACACTAATA GAAACTTGGC ACTCCTGTGC CCTCTGCCTG
GACAAGCACA TAGCAAGCTG AACTGTCCTA AGGCAGGGGC GAGCACGGAA 17000
CAATGGGGCC TTCAGCTGGA GCTGTGGACT TTTGTACATA CACTAAAATT
CTGAAGTTAA AGCTCTGCTC TTGGAGACAG TGGTCTGTCG GGATGGGAGG 17100
TGGGGGCAGA GGCCCAGATC CTGAGGGGTG AGATGGGAAA AGCCCTGCAC
TAGGGCCAGG TAGCCCATCA CCATCACGCC AAGTGACAGA GGAGTAGCAG 17200
GTTCTTGTTC TGAACACCGT CATCTGTTGC CCAAGCTGGA GTGCGCTCAC
TGCAGCCTCC AACCCTTGGG CTCATGGGGT CCTCCCGCCT CAGCCTCCGG 17300
ACACAGGCAC ACCACCACAC CTGGGTAATT TTTAAAATTT TTTTTTGTAA
AGACAGGGTT TCCCTATATT GCCCAGGCTG GTCTGGAACT CCTGGGCTCA 17400
AGGGATCCTC CCACCTCAGC CTCCCAAAGT GCTGGGATTA CAGGCAGCCA
TGCCCAGCCA GGGCAGTCAT TTTTATGCAC AACTTTCTGT GGGGCTCAGG 17500
TGCACCTATG ATACATAAAT TTACAGTTCT TGATCCCCAA ACAGAGCAGG
AGGCAGGGTG CCTGGGCCAG GCTTCCTTTG GGAAATGTGG TCCTTGAGGT 17600
AGAGTCACAG ATGCCGGAGG GTGACCAGCA CTACTGGGGA GAGATCTCCT
CTGGGAGAGA TGCATGCCAA AGGTCCTCTG CATTCCTCAT ACCTCTCTGA 17700
AAAGACAGGA GGGGGTGTTA GGCGACATTC AGTGGCAACG GGTGAGGGTC
AGGTGAAGAG TGAGGCGGAG AGCCCTTCCT GCCTCAGCCC CTGTTCCTGC 17800

FIGURE 1G

TTTGCCCTCT TTCTATACTA CACCCCACCA CCATACAGAC ATCCCCGTCT
GCCCCCTCCC AGGCCAGCTT CCCTCCAGCA CTTACGATGC GGACAGAGGG 17900
GTGTCCAGCT GAATGATGTG GGGCCCCCGC ATCCTCTGCA GCTGGGCCCG
AGTCAGCTTC CGTGGCCTGC TGTCCCGGGG CTCCTCGGCC CCCTCAATCC 18000
TTTGGCTGGC CAGCTCCTCC CGGATCTCTC TGAGCATGTC CTCAGCCCGC
ATTGGGCGCA GGGATGTGTG GCCAGCTTTC AGGAACAGAG GCCCCTCTTC 18100
TTCCTCCTCC CCTGAGGACT CCCAGGGGCT TTCCCCGGCA GAGTCAGCAT
GGGTTGGGGA GGAGGGAAGC TGGCCCCGAA GCCGGGCCCT GTGGAGTGTT 18200
TCCACCACCA CATTCCCTCG CTCGGAGGCC CCATCTTCTT CCTCAGACCA
GGTTGGTGGG TCTTCCTGGG GAAGACTGCC TCCTTTTAGG ATTCCTTCCG 18300
GCAGTTCGGG GGCGCTTCGG CGTTGAGGAG CTTGGGGGTC GGGAGGGTGG
GGACGCAGAG GGATGTCCCG GAGTTCCAGG GTGGAGAAGG TGAGGCGAGG 18400
GTCCCGCCGA AGGGCTCTTT GGCGTAGACG GCTCAGTGGG GAGCGGGACC
CCGTGGGGGT GCCTGGGATC AAAGTGCCGT AGCCAGAGTC TGAGGTATCA 18500
TCTGGCACAA GGGGAGCATC TTCATCTGTG TCTTCTGTCA CCACCAGGTG
GGGGATAATG GTCGAGAACT CAGGAGTCCT ACAGTTAATG GCAAAGAGTC 18600
AGATGCGTAG GGGTCAAGTT CAAGTCCAGG GAGTTTCCCT TGATCACTAC
ATCCAGAAAT GGCCCCTCCT CCAAACTTAT TTTGGTATCA TCTTTCCATC 18700
GCACTGTGAT TGTTTTTCTC ATCTGGCTGG CTAGATTTTA AGCTCCTAAG
AGAGTACGGG CTGCCTCTAT ACTGTTTTAT CCATAGCATC TGGTCCAGGA 18800
TCTTGTATCG AGTGGGTAGT CAGGTTTTTG CTGAGTGGTT CCTGAACTTA
CCTGATATTA TCCTCAATGA TCGATTCTTC TTTTCTCCTT AAGCTGCTGC 18900
CAAGCAGTGG TGCTATCCTA GACGAACCTC ACACTCCCCG GGGATTTGGC
AGCTCTAATA TTCTGCAGAT CCACACCTAC CTTCACTCTC GAGCTTGCTC 19000
CTCTCACAGT GCTCCTGTGT GACTCTAGGC AGGCTAACTC TGTAGGCTGT
CTGTGCCCTA TCCCCCACCT CCAACCCAAC ACGGCTGGTA CCAACCTTCC 19100
GACCCAACAC AGCTGGTACC GAGCTTCCCT ACCCTGCCCT ACGCCTGCGT
TCCTCTATCT ATTCCCAATT CCACCAAAAA TGTGCAGTAA TGCCATTTCT 19200
CAGCCTTATG GCTCCCTCCT CCTGCTCGGG GAGACCTTGT AGTCCGTGTG
AGCCTTACCT CCCCTCTGCG CTGCTCTGAG AGCCCTCCAG GGAAGGCGTG 19300
GAGGGCCTGG TGCTGGGGGA CTCCCTGTCC TGGTCCCGAT AGAGGGTCAG
GAGCTCCCTC TTCTGTTGAA CATACTCCTC TGCCTTCAGC TTCTGTAGGG 19400
CGGCCTGGGA CAGGACACTT TCGTTATTAA GAGCTCTCAT TTATTGAGCA
CTTGCTGTTT GCCAGGCACC CTGCTAAGTG CGTTACATAT ATTACCTTAT 19500
TTTATTTTAT TATTATTATT ATTTTTTGAG ACTGAGTCTT GCTCTGTCAC
CCAGACTAGA GTGCAGTGCC ACAATCTTGG CTCACTGCAA CCTCCACCTC 19600
CTGGGTTCAA GCGATTCTCC TGCCTCAGCC TCCTTAGTAG CTGGGATTAC
AGGCGCCCGC CAACGTGCCC GGCTAATTTT TGTATTTTTA GTAGAGATGG 19700
GGTTTCACCA TCTTGGCCAG GCTGGTCTCA AACTCCTGAC CTTGTGATCC
ACCCCCCTTG GCCTCCCAAA GTGCTGGAAT TAGACGTGTA AGCCACCGTG 19800
CCCGGCCTAC ATTACCTTAT TTAATCTTTA CAAAAACCCC ATGAACCAGA
TATTTTTACC CCACCTTACT ACTGAGACAT GGAGACTCTA AGGTTAAGTA 19900
ACTGTCTGAG GGGGTACTTC TTACCATAAG AAAGTGGGGT GGTGCCGGGA
TTTGGTGGCA CCAAACTCTG GAGCTAGTGT TGGGGGTGAG TGGGGTGAAC 20000
AGAATGGCCC TTTTCCTACC TGTACAGGTC TTCCTGCTTC TCATGTCCCA
TTGGCAGACC TGTTATCAGG TCTTCCCCCT CCTTCAGGAA GCCCTCCCTG 20100
GTTGGTGGTG ATGGTAGAAT AAGTGTTCTG AATTGGTACT GGTTGCTCCT
TCAAGAGCAT CCCTCTCCTA CCACCTGGGC CTCTGCCCTG AAGCTGGGAG 20200
GAGCAGGAGG GCAGAACGTG GGCAGAGGTG GGCTTTGTCC CAGGCTGAGG
ACTCTGCTGT CCTTCAGAGG GAGGAAAGTT CCTAGAAGGC TGAGGAGAGG 20300
ACGCATTATA TTATCTGCCT TCTCCCTCCC TCAGCGATTT CATACAGGTA
CCATCAAAAG GAAATAGCGC CACCTGAGAA AAAATTTTCA AAGCACTTTT 20400
GCACATGTGG TCATTTGATA CACATCATTG CCCTGTGGTG TGGAGAACAT
GAATGTTAGC CCATTTTACA GACAAGAAAC CTAGACCTAG AGAGGTGAAG 20500
TGACTTGCTC AAGGTGCCA 20519

FIGURE 1H

POLYMORPHISMS IN THE CODING SEQUENCE OF TNFRSF1A

```
ATGGGCCTCT CCACCGTGCC TGACCTGCTG CTGCCCCAGG TGCTCCTGGA
GCTGTTGGTG GGAATATACC CCTCAGGGGT TATTGGACTG GTCCCTCACC      100
TAGGGGACAG GGAGAAGAGA GATAGTGTGT GTCCCCAAGG AAAATATATC
CACCCTCAAA ATAATTCGAT TTGCTGTACC AAGTGCCACA AAGGAACCTA      200
CTTGTACAAT GACTGTCCAG GCCCGGGGCA GGATACGGAC TGCAGGGAGT
                         T
GTGAGAGCGG CTCCTTCACC GCTTCAGAAA ACCACCTCAG ACACTGCCTC      300
AGCTGCTCCA AATGCCGAAA GGAAATGGGT CAGGTGGAGA TCTCTTCTTG
CACAGTGGAC CGGGACACCG TGTGTGGCTG CAGGAAGAAC CAGTACCGGC      400
            A
ATTATTGGAG TGAAAACCTT TTCCAGTGCT TCAATTGCAG CCTCTGCCTC
  C
AATGGGACCG TGCACCTCTC CTGCCAGGAG AAACAGAACA CCGTGTGCAC      500
CTGCCATGCA GGTTTCTTTC TAAGAGAAAA CGAGTGTGTC TCCTGTAGTA
ACTGTAAGAA AAGCCTGGAG TGCACGAAGT TGTGCCTACC CCAGATTGAG      600
AATGTTAAGG GCACTGAGGA CTCAGGCACC ACAGTGCTGT TGCCCCTGGT
CATTTTCTTT GGTCTTTGCC TTTTATCCCT CCTCTTCATT GGTTTAATGT      700
ATCGCTACCA ACGGTGGAAG TCCAAGCTCT ACTCCATTGT TTGTGGGAAA
TCGACACCTG AAAAAGAGGG GGAGCTTGAA GGAACTACTA CTAAGCCCCT      800
GGCCCCAAAC CCAAGCTTCA GTCCCACTCC AGGCTTCACC CCCACCCTGG
GCTTCAGTCC CGTGCCCAGT TCCACCTTCA CCTCCAGCTC CACCTATACC      900
CCCGGTGACT GTCCCAACTT TGCGGCTCCC CGCAGAGAGG TGGCACCACC
                                     A
CTATCAGGGG GCTGACCCCA TCCTTGCGAC AGCCCTCGCC TCCGACCCCA      1000
TCCCCAACCC CCTTCAGAAG TGGGAGGACA GCGCCCACAA GCCACAGAGC
CTAGACACTG ATGACCCCGC GACGCTGTAC GCCGTGGTGG AGAACGTGCC      1100
CCCGTTGCGC TGGAAGGAAT TCGTGCGGCG CCTAGGGCTG AGCGACCACG
AGATCGATCG GCTGGAGCTG CAGAACGGGC GCTGCCTGCG CGAGGCGCAA      1200
TACAGCATGC TGGCGACCTG GAGGCGGCGC ACGCCGCGGC GCGAGGCCAC
GCTGGAGCTG CTGGGACGCG TGCTCCGCGA CATGGACCTG CTGGGCTGCC      1300
TGGAGGACAT CGAGGAGGCG CTTTGCGGCC CCGCCGCCCT CCCGCCCGCG
CCCAGTCTTC TCAGATGA                                         1368
```

FIGURE 2

ISOFORMS OF THE TNFRSF1A PROTEIN

```
MGLSTVPDLL LPQVLLELLV GIYPSGVIGL VPHLGDREKR DSVCPQGKYI
HPQNNSICCT KCHKGTYLYN DCPGPGQDTD CRECESGSFT ASENHLRHCL     100
                          L
SCSKCRKEMG QVEISSCTVD RDTVCGCRKN QYRHYWSENL FQCFNCSLCL
                      Q              H
NGTVHLSCQE KQNTVCTCHA GFFLRENECV SCSNCKKSLE CTKLCLPQIE     200
NVKGTEDSGT TVLLPLVIFF GLCLLSLLFI GLMYRYQRWK SKLYSIVCGK
STPEKEGELE GTTTKPLAPN PSFSPTPGFT PTLGFSPVPS STFTSSSTYT     300
PGDCPNFAAP RREVAPPYQG ADPILATALA SDPIPNPLQK WEDSAHKPQS
            K
LDTDDPATLY AVVENVPPLR WKEFVRRLGL SDHEIDRLEL QNGRCLREAQ     400
YSMLATWRRR TPRREATLEL LGRVLRDMDL LGCLEDIEEA LCGPAALPPA
PSLLR                                                      455
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FIGURE 3